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USDOC FOR 3150/USFCS/OIO/CEENIS/MCOSTA
USDOC FOR 532/OEE/MO'BRIEN

E.O. 12958: N/A

TAGS: [BEXP](#) [ETRD](#) [ETTC](#) [RS](#)

SUBJECT: EXTRANCHECK: POST-SHIPMENT VERIFICATION:
JOINT INSTITUTE FOR NUCLEAR RESEARCH, MOSCOW, RUSSIA,
LICENSE NO. NLR

REFTEL: USDOC 05565

11. Unauthorized disclosure of the information provided below is prohibited by Section 12C of the Export Administration Act.

12. Reftel 1 requested a Post-shipment verification to determine the legitimacy and reliability of the end-user, Joint Institute for Nuclear Research, Dubna, Moscow Oblast, Russia. The company is listed on BIS license application: NLR as the ultimate consignee of physical analysis equipment, 1, multimode V application module-ready SPM system, ECCN: EAR99. The licensee is Intertech Corporation, 3 Commerce Drive, Atkinson, NH 03811. NOTE: The actual end user of the equipment is Energomashtekhnika - Russian Academy of Sciences Prokhorov General Physics Institute, located at 38 Vavilov St. Moscow, Russia 119991. The Institute was the subject of PLC D317180 reported as favorable by FCS in 04 MOSCOW 06622 sent on May 14, 2004 and of PLC D332439 reported as favorable by ECO Moscow in 05 MOSCOW 06594 sent on June 7, 2005. END NOTE.

13. On August 10, 2007, Export Control Attache Donald Pearce and FSN Natalya Shipitsina conducted the requested post-shipment verification with Energomashtekhnika, Russian Academy of Sciences-Prokhorov General Physics Institute (RAS-PGPI) Moscow, Russia. The export control team met with Victor Appolonov, high power laser dept., Academician of the Russian Academy of Natural Sciences and General Director of Energomashtekhnika.

14. Energomashtekhnika is a commercial venture established in 1993 by the High Power Lasers Department of the RAS-PGPI to provide operating funds for the Department. The company specializes in research, development and production of high power lasers for the metallurgical industry, heavy equipment manufacturing, medical and scientific research, emergency services, and environmental protection. The company has worked with 55 universities, research centers and commercial organizations since 1993 from France, Germany, United Kingdom, Japan, Singapore, Canada and the United States. A complete list of lasers produced, major partners and other company information is available at the Energomashtekhnika website at <http://www.gpi.ru/hpl/>. Energomashtekhnika employs 40 at its laboratory located in the RAS-PGPI building in Moscow.

¶5. The equipment in reftel will be principally used in a research and development project to increase the efficiency of photo detectors, laser diodes, and similar sensors. The current designs of these devices provide a 15-20% threshold of sensitivity, limiting their ability to be used in commercial applications. The research aims to improve the sensitivity, allowing for more efficient use in solar energy and laser projects. Direct access to the equipment will be limited, however other researchers from organizations such as the Joint Institute for Nuclear Research, Moscow State University, and other academicians may submit data or request experiments to be performed in the lab on their behalf.

¶6. The project is currently on hold pending the completion of the laboratory space at the facility. The devices in reftel are being stored, crated as shipped, in the lobby of the building. The team examined the packing marks and bills of lading, which match the information provided in reftel. Energomashtekhnika took delivery of the crates last week, as the shipment was delayed in customs for nearly three months. Access to the lobby is limited to those with official business and authorized visitors, however the equipment will remain sealed and crated to prevent damage or pilferage.

¶7. The room designated for the laboratory currently houses several obsolete devices, which will be disassembled and moved to storage. The devices in reftel will be assembled by representatives of Intertech, with a target timeframe of September 2007. Dr. Appolonov will be personally responsible for the equipment, and is familiar with U.S. export controls

and the destination control requirements of this shipment. Only three persons will have regular access to the room: a trained equipment operator, a research scientist and a statistician. Due to the sensitivity of the equipment, no other personnel will be authorized to utilize or access the equipment. The room will be secured with a cipher lock system, and protected by an electronic security alarm system. The building is guarded at all times by campus security officers. Annual audits of all major equipment are conducted by the RAS as required under Russian law.

¶8. Recommendations: Post recommends Energomashtekhnika, Russian Academy of Sciences Prokhorov General Physics Institute Moscow, Russia as reliable recipients of sensitive U.S. origin commodities.
(FCS MOSCOW/SBOZEK/DPEARCE)
BURNS